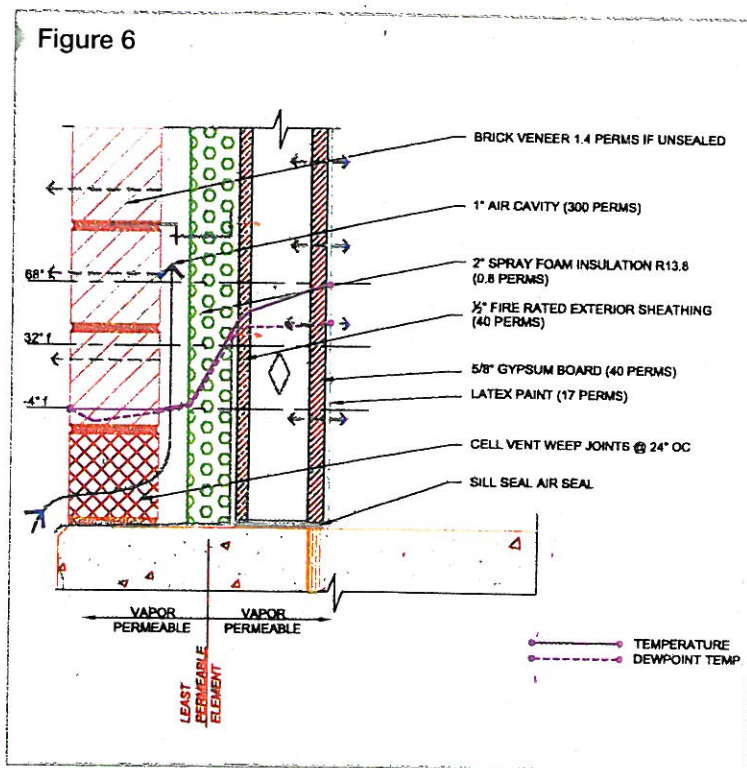


With routine maintenance, a properly installed SPF roof system provides an energy-efficient covering that can last 20 years between recoats.



Brick veneer assembly with SPF insulation.

Image courtesy Bayer MaterialScience LLC and Trinity Consultants

polyurethane foam insulation will not only help meet ASHRAE 90.1 requirements, but it also provides a monolithic seal around building penetrations and affords designers great flexibility. A properly designed air barrier system is the single biggest factor for controlling unwanted air infiltration and exfiltration.

Understanding how bulk moisture, condensation and vapor diffusion occur is a major step toward moisture management on the building envelope. Science and the environment can peacefully co-exist in today's high-performance buildings.

Notes

¹ See ASHRAE 90.1, *Energy Standard for Buildings Except Low-rise Residential Buildings*.

² For more, see U.S. Department of Energy's (DOE's) "Better Buildings." Visit www1.eere.energy.gov/buildings/betterbuildings.

³ See the Air Barrier Association of America's (ABAA's) "Information for Design Professionals." Visit www.airbarrier.org/views/design_e.php.

⁴ For more information, see ABBA's "Air Barrier Materials, Components, Assemblies, and Systems" at www.airbarrier.org/materials/assemblies_e.php.

ADDITIONAL INFORMATION

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Abstract

New building code requirements focus on improving the building envelope by prescribing higher R-values, recognizing the importance of continuous insulation and the inclusion of air

barrier systems. The thermal envelope, along with air and moisture movement through the building envelope, has a significant impact on the structure's performance. New building materials and construction techniques are being evaluated. Closed-cell sprayed polyurethane foam (ccSPF) is a multi-functional product that can perform as continuous insulation, an air barrier component, and waterproofing.

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